

ITEM	QTY -041	P/N	DESCRIPTION
	X	D5445-041	LONGITUDINAL BEAM ASSEMBLY, LH
1	2	D5445-043	END CAP ASSEMBLY
2	4	D5445-5	SPACER
3	8	CR2672-3-(03)	RIVET CHERRY, CSK
4	1	D5445-1	LONGITUDINAL BEAM, LH
5	3	MS21059-4	NUT PLATE
6	1	MS21061L4	NUT PLATE
7	4	MS24694-S3	SCREW, CSK 100°
8	A/R	SIKAFLEX-241/-291	SEALANT

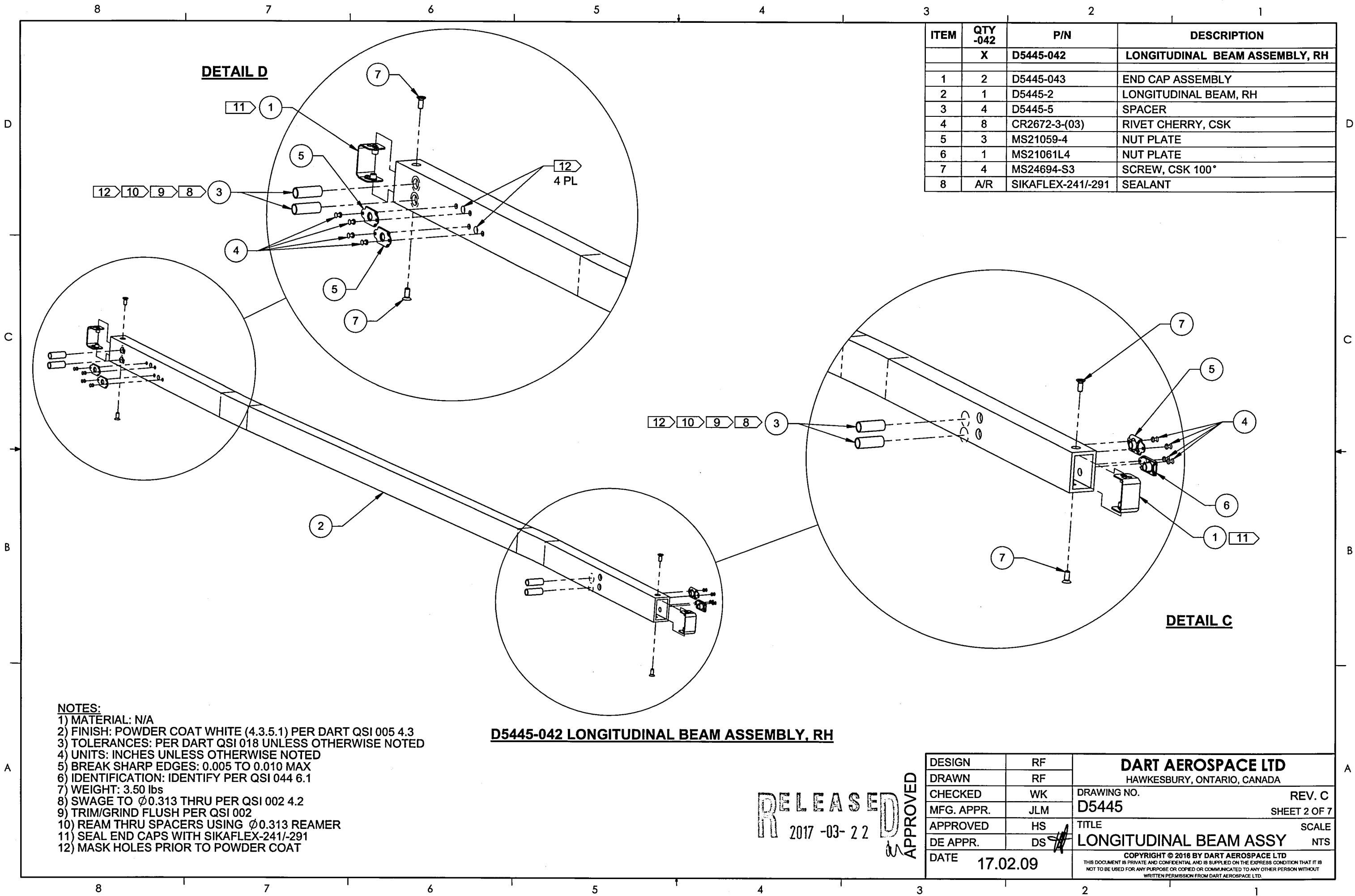
D5445-041 LONGITUDINAL BEAM ASSEMBLY, LH

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
 - 7) WEIGHT: 3.50 lbs
 - 8) SWAGE TO Ø0.313 THRU PER QSI 002 4.2
 - 9) TRIM/GRIND FLUSH PER QSI 002
 - 10) REAM THRU SPACERS USING Ø0.313 REAMER
 - 11) SEAL END CAPS WITH SIKAFLEX-241/-291
 - 12) MASK HOLES PRIOR TO POWDER COAT

RELEASED
2017-03-22
EW 17-535

APPROVED

C	2.05 WAS 1.45 (ZN C1-4 & C2-5); REVISE -3F (ZN C5-6)	RF	17.02.09
B	REDESIGN -1/-2/-041/-042 (ZN A4-1, A4-2, B4-4, B4-5); ADDED -5 (ZN B4-7), REVISE BOM & NOTES (ZN A8-1, A8-2, D3-1, D3-2)	RF	16.11.18
A	NEW ISSUE	RF	16.05.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	WK	DRAWING NO.	REV. C
MFG. APPR.	JLM	D5445	SHEET 1 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	LONGITUDINAL BEAM ASSY	NTS
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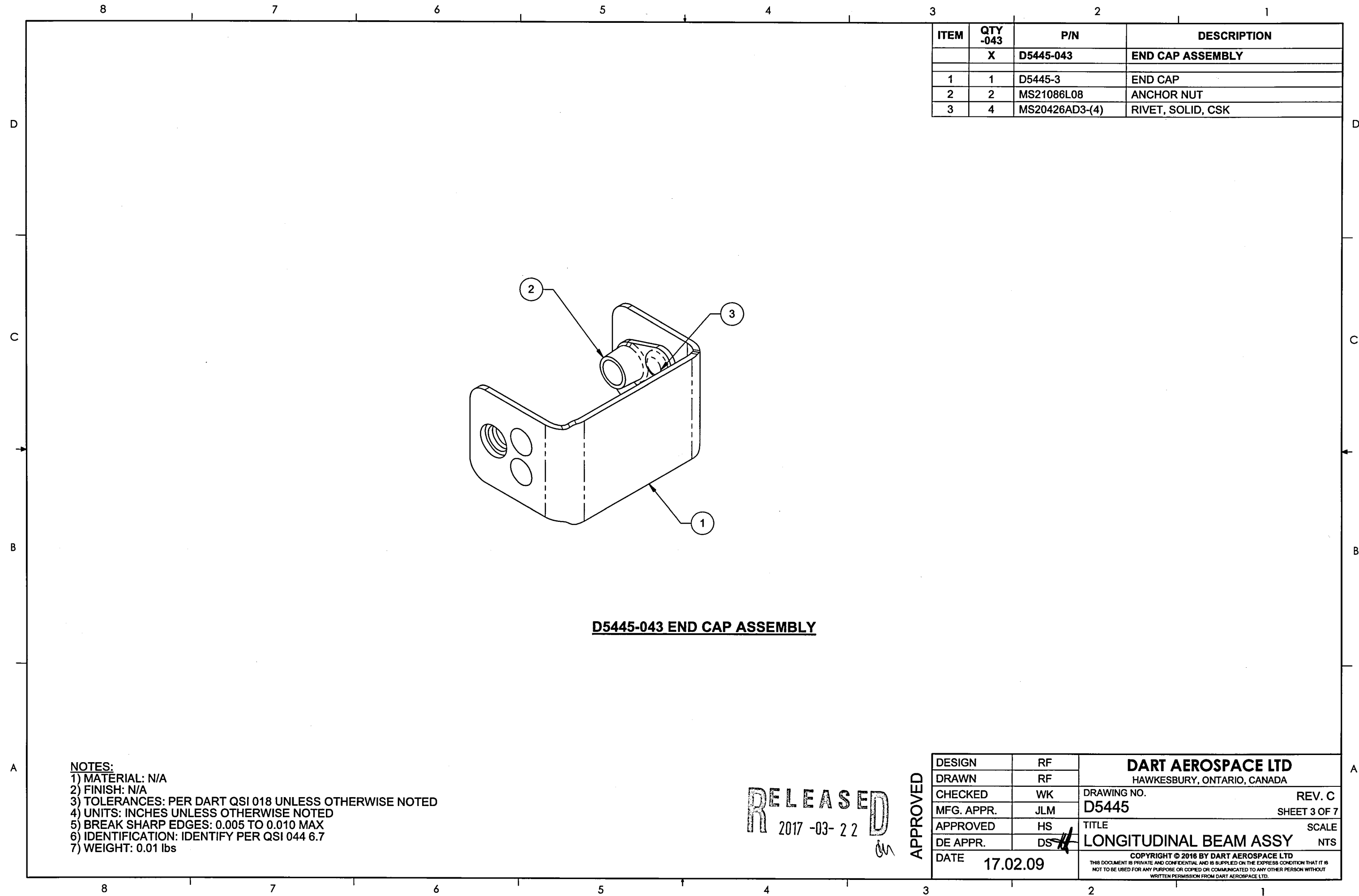
ITEM	QTY -042	P/N	DESCRIPTION
	X	D5445-042	LONGITUDINAL BEAM ASSEMBLY, RH
1	2	D5445-043	END CAP ASSEMBLY
2	1	D5445-2	LONGITUDINAL BEAM, RH
3	4	D5445-5	SPACER
4	8	CR2672-3-(03)	RIVET CHERRY, CSK
5	3	MS21059-4	NUT PLATE
6	1	MS21061L4	NUT PLATE
7	4	MS24694-S3	SCREW, CSK 100"
8	A/R	SIKAFLEX-241/-291	SEALANT

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
 - 7) WEIGHT: 3.50 lbs
 - 8) SWAGE TO $\phi 0.313$ THRU PER QSI 002 4.2
 - 9) TRIM/GRIND FLUSH PER QSI 002
 - 10) REAM THRU SPACERS USING $\phi 0.313$ REAMER
 - 11) SEAL END CAPS WITH SIKAFLEX-241/-291
 - 12) MASK HOLES PRIOR TO POWDER COAT

D5445-042 LONGITUDINAL BEAM ASSEMBLY, RH

RELEASED
2017-03-22
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DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	WK	DRAWING NO. D5445	REV. C
MFG. APPR.	JLM	SHEET 2 OF 7	
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	LONGITUDINAL BEAM ASSY	NTS
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ITEM	QTY -043	P/N	DESCRIPTION
	X	D5445-043	END CAP ASSEMBLY
1	1	D5445-3	END CAP
2	2	MS21086L08	ANCHOR NUT
3	4	MS20426AD3-(4)	RIVET, SOLID, CSK

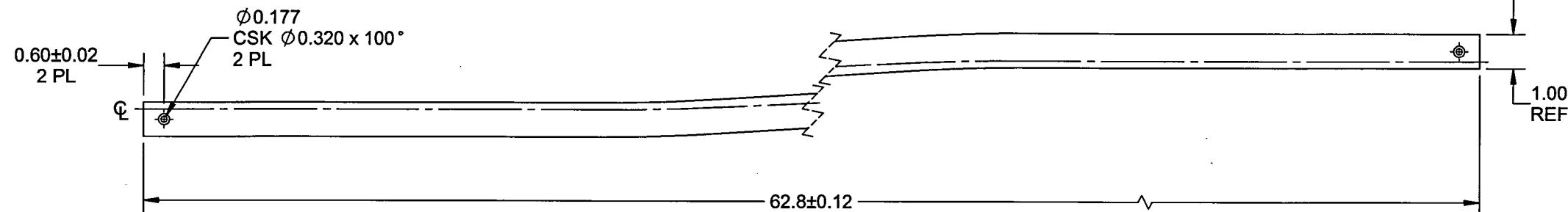
D5445-043 END CAP ASSEMBLY

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
 - 7) WEIGHT: 0.01 lbs

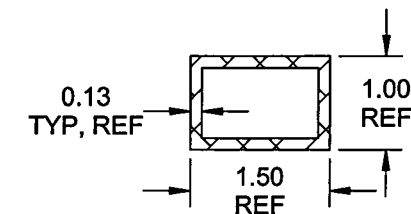
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2017-03-22

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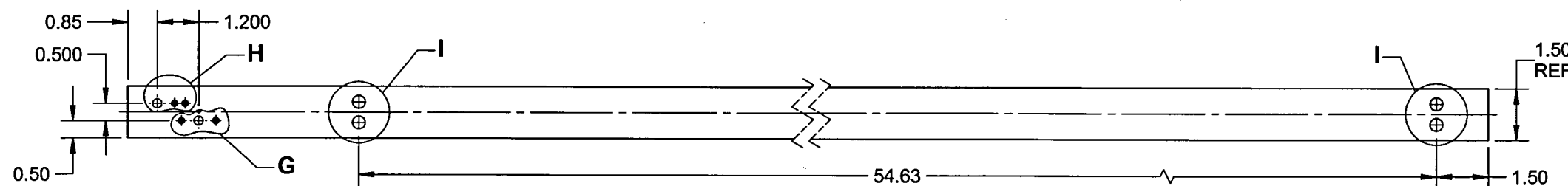
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	WK	DRAWING NO. D5445	REV. C
MFG. APPR.	JLM		SHEET 3 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	LONGITUDINAL BEAM ASSY	NTS
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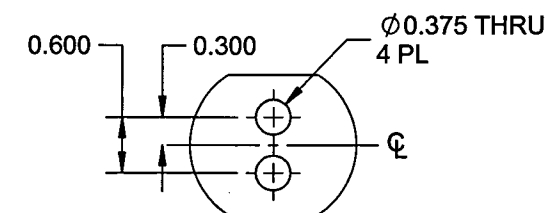
VIEW E-E



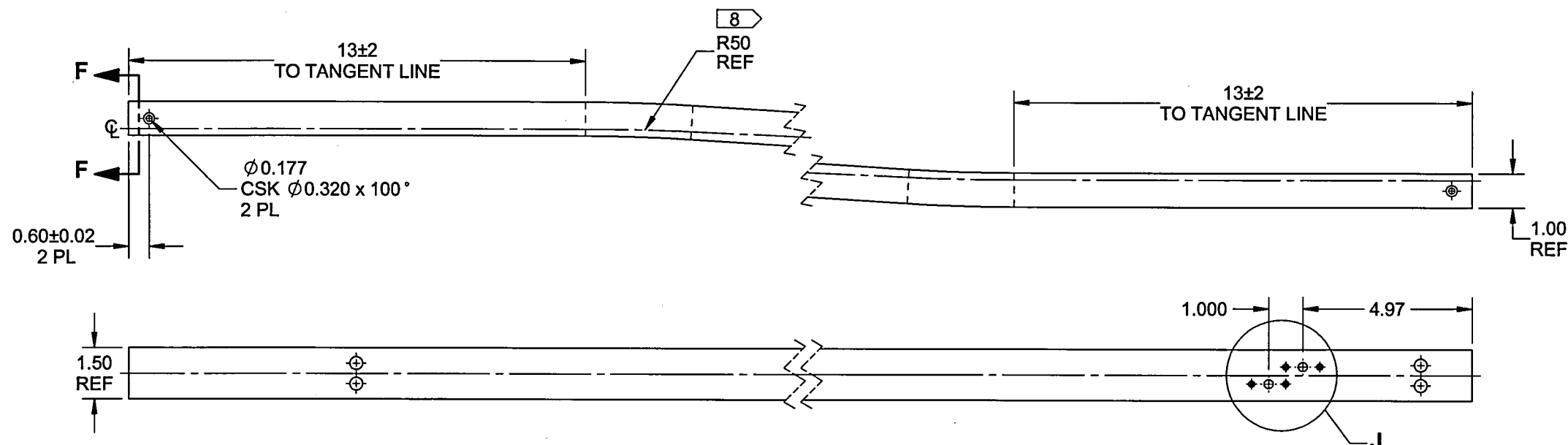
SECTION F-F



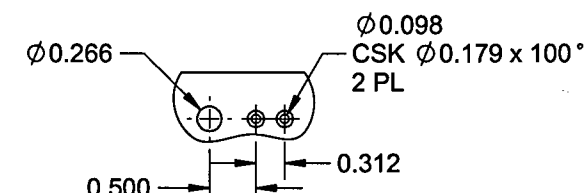
DETAIL I



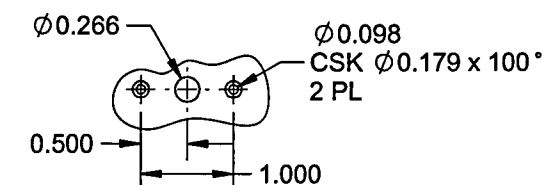
DETAIL I



D5445-1 LONGITUDINAL BEAM, LH



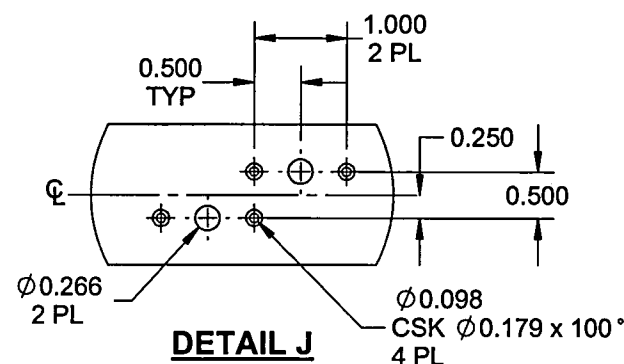
DETAIL H



DETAIL G

NOTES:

- 1) MATERIAL: POSSIBLE VENDOR McMASTER CARR, P/N 6546K38, 6ft IN LENGTH
6061-T6 RECTANGULAR TUBE $1.5" \times 1.0" \times 0.125"$ WALL
PER ASTM B221, YIELD STRENGTH: 35,000 psi
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 3.43 lbs
- 8) BEND RADIUS NOT CRITICAL

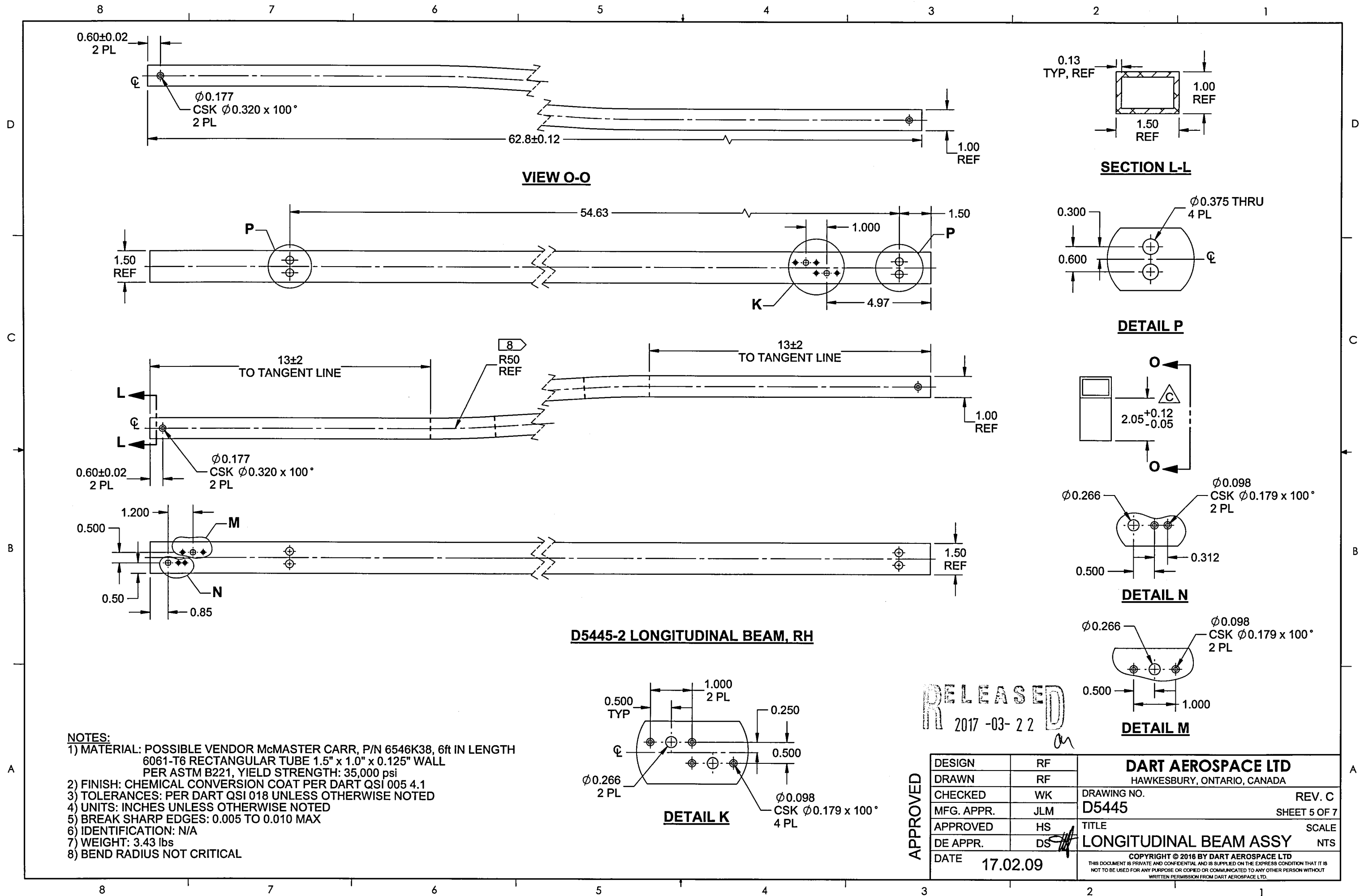


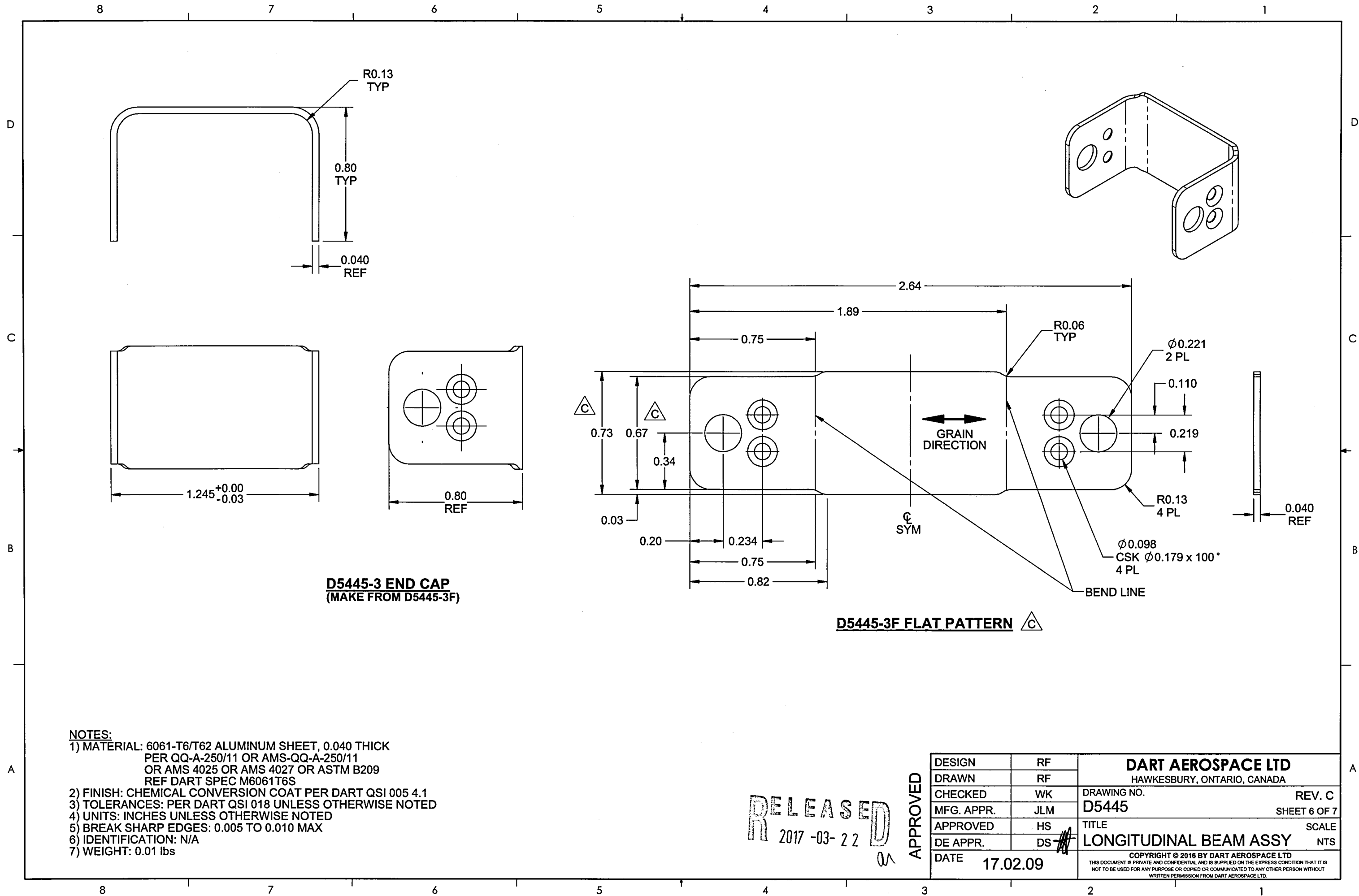
DETAIL J

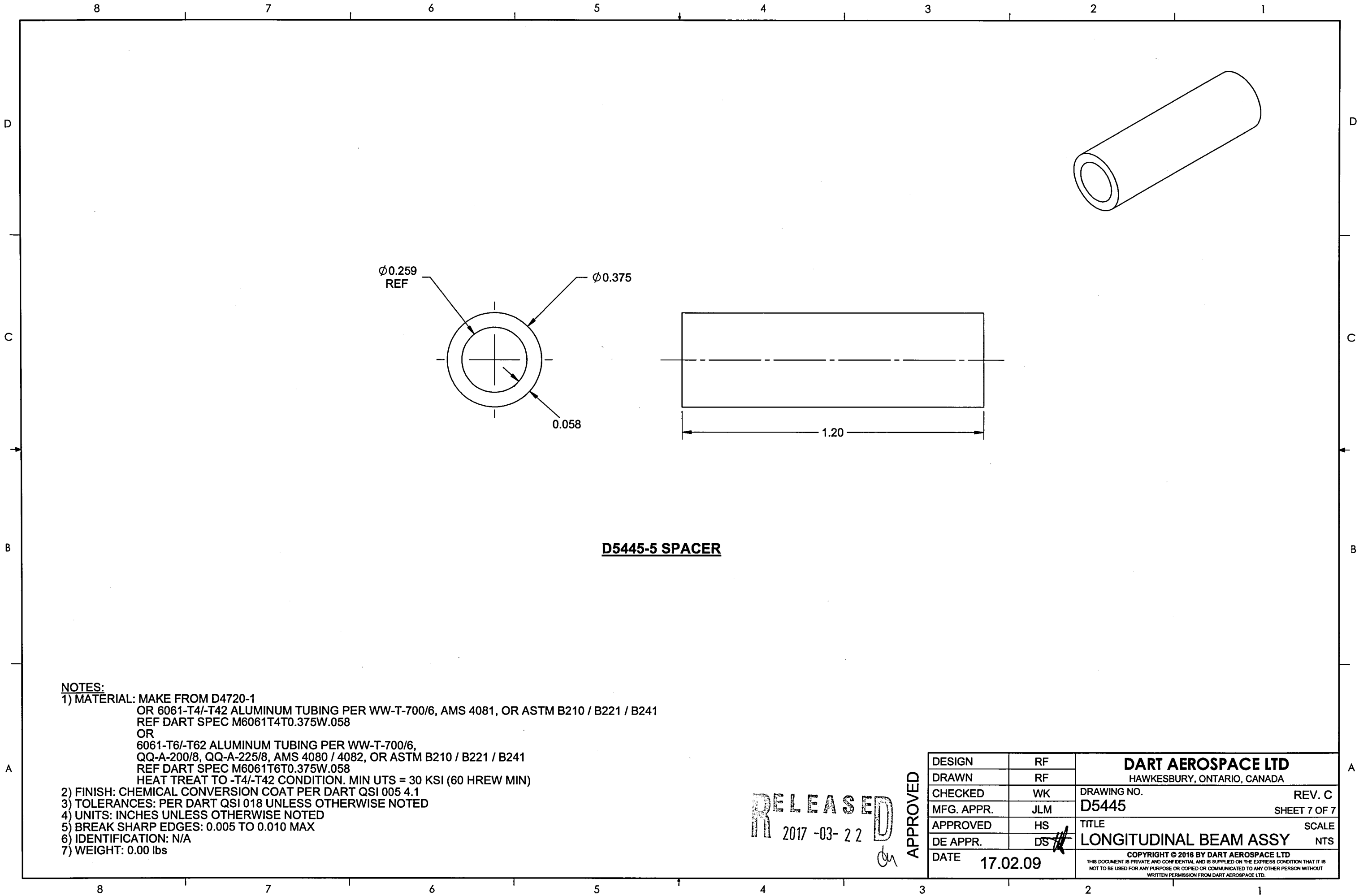
RELEASED
2017-03-22

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DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	WK	DRAWING NO.	REV. C
MFG. APPR.	JLM	D5445	SHEET 4 OF
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	LONGITUDINAL BEAM ASSY	NTS
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NOTES:

- 1) MATERIAL: MAKE FROM D4720-1
OR 6061-T4/-T42 ALUMINUM TUBING PER WW-T-700/6, AMS 4081, OR ASTM B210 / B221 / B241
REF DART SPEC M6061T4T0.375W.058
OR
6061-T6/-T62 ALUMINUM TUBING PER WW-T-700/6,
QQ-A-200/8, QQ-A-225/8, AMS 4080 / 4082, OR ASTM B210 / B221 / B241
REF DART SPEC M6061T6T0.375W.058
HEAT TREAT TO -T4/-T42 CONDITION. MIN UTS = 30 KSI (60 HREW MIN)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.00 lbs

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2017-03-22

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DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	WK	DRAWING NO. D5445	REV. C
MFG. APPR.	JLM	SHEET 7 OF 7	
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